

**(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)**

**(19) World Intellectual Property Organization  
International Bureau**



**(43) International Publication Date  
7 July 2005 (07.07.2005)**

PCT

**(10) International Publication Number  
WO 2005/062482 A1**

**(51) International Patent Classification<sup>7</sup>:**

H04B 3/46

(81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

**(21) International Application Number:**

PCT/IB2004/004175

**(22) International Filing Date:**

17 December 2004 (17.12.2004)

**(25) Filing Language:**

## English

**(26) Publication Language:**

## English

**(30) Priority Data:**

2003/9858	19 December 2003 (19.12.2003)	ZA
2004/0376	19 January 2004 (19.01.2004)	ZA
2004/0527	23 January 2004 (23.01.2004)	ZA

**(71) Applicants and**

(72) **Inventors:** **KOTZE, Leon** [ZA/ZA]; 72 Willow Street, 1871 Kliprivier (ZA). **RICHTER, Alexander, Franz** [ZA/ZA]; Plot 82, Farm Zwartkop 525, JQ, 1747 Muldersdrift (ZA).

**(74) Agents: DONALD, Heather, June et al.; Spoor & Fisher, P.O. Box 41312, Craighall, 2146 Morningside (ZA).**

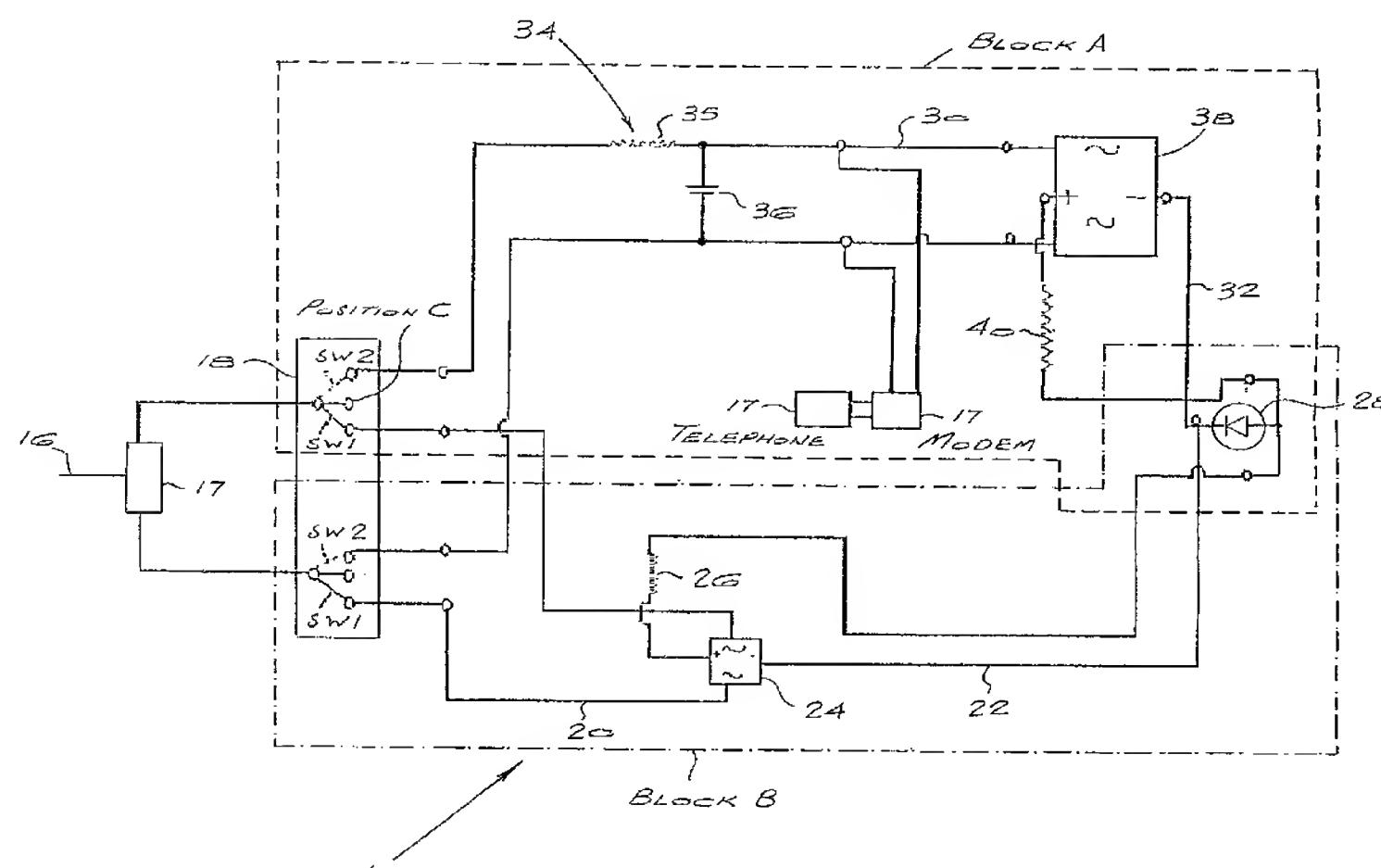
**(84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(54) Title:** TELECOMMUNICATIONS SYSTEM INDICATOR AND PROTECTOR



**(57) Abstract:** The present invention provides a telecommunications system indicator and protector (10) for indicating the working status of a telecommunications line (16) and of equipment (12, 14) which can be connected to the telecommunications line. The telecommunications system indicator includes connecting means whereby the telecommunications system indicator can be connected to the telecommunications line and the equipment respectively, a line testing circuit (Block B) and an equipment testing circuit (Block A). The telecommunications system indicator further also includes a switch (18) which is movable between a first position wherein the telecommunications line is connected to the line testing circuit and a second position wherein the telecommunications line is connected to the equipment testing circuit as well as an indicator for indicating whether the telecommunications line is in working order when the switch is located in the first position, and whether the equipment is in working order when the switch is located in the second position.